

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	602806	(protect\$3 limit\$5 prevent\$3 suppress\$3 eliminat\$3 filter\$3 limit\$3 clamp\$3 arrest\$3 banish\$3 discard\$3 trap\$4 restrain\$3 halt\$3 nullif\$4 abolish\$3 cancell\$3 terminat\$3 obstruct\$3 restrict\$3 disallow\$3 exclud\$3 inhibit\$3 prohibit\$3 interrupt\$3) same (surge spike arc\$3 spark\$3 transient)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/29 15:54
S2	220503	S1 same (switch\$3 contact\$3 transistor bjt igbt ((npn pnp) NEAR junction) thyristor triac scr varactor varicon sidac fet jfet mos (field adj effect adj transistor) (Metal-Oxide adj Semiconductor) (Metal adj Oxide adj Semiconductor))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/29 15:56
S3	21126	S2 same transformer	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/29 15:57
S4	1461	S3 same zener	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/29 16:06
S5	18	S3 same (second adj zener)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/29 15:58
S6	10	S5 and contact	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/29 15:59
S7	761	S3 same zener and contact	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/29 16:07

## EAST Search History

S9	46	(zener near3 parallel near3 (secondary transformer))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/29 16:49
S10	3030	(zener near3 series) same (parallel neær3 transformer)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/29 17:03
S11	28	(zener near3 series) same (parallel near3 transformer)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/29 16:51
S12	22	(zener near3 series) same (parallel neær3 transformer) and (prevent\$3 adj arc\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/29 17:30
S13	160	(prevent\$3 adj arc\$3) and (opera\$3 adj respon\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/29 17:32
S14	26	(prevent\$3 adj arc\$3) same (opera\$3 adj respon\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/29 17:32
S15	34	(prevent\$3 adj arc\$3) same ((opera\$3 operat\$3) adj respon\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/29 17:38
S16	9	(prevent\$3 adj arc\$3) same ((responsive responding respond) adj voltage)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/29 17:42

## EAST Search History

S17	9	(prevent\$3 adj arc\$3) same ((responsive responding respond) adj (reference voltage))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/29 17:42
S18	31	(prevent\$3 adj arc\$3) same ((responsive responding respond) near3 (reference voltage))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/29 18:05
S19	22	S18 not S16	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/29 17:43
S20	42	((prevent\$3 suppress\$3 eliminat\$3) adj arc\$3) same ((responsive responding respond) near3 (reference voltage))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/29 17:56
S21	20	S20 not S19	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/29 17:57
S23	39	(prevent\$3 adj arc\$3) same ((responsive responding respond) same (de-energi\$3 de\$energi\$3 deenergized))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/29 18:16
S26	10	(prevent\$3 adj arc\$3) and (transformer same clos\$3 same driver same (reference threshold predetermined))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/29 18:24
S27	27	(prevent\$3 adj arc\$3) and (transformer same driver same (reference threshold predetermined))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/29 18:24

## EAST Search History

S28	33	((prevent\$3 suppress\$3 eliminat\$3 adj arc\$3) and (transformer same driver same (reference threshold predetermined)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/29 18:24
S29	23	S28 not S26	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/29 18:25
S30	24	"5536980" "6347024" 2002/0080003 "6643112"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/29 20:01
S31	602806	(protect\$3 limit\$5 prevent\$3 suppress\$3 eliminat\$3 filter\$3 limit\$3 clamp\$3 arrest\$3 banish\$3 discard\$3 trap\$4 restrain\$3 halt\$3 nullif\$4 abolish\$3 cancell\$3 terminat\$3 obstruct\$3 restrict\$3 disallow\$3 exclud\$3 inhibit\$3 prohibit\$3 interrupt\$3) same (surge spike arc\$3 spark\$3 transient)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/29 20:12
S32	17	S31 same (driver same (responsive respond responding) same zener same transformer same (voltage reference threshold))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/29 20:20
S33	107	S31 same (driver same zener same transformer same (voltage reference threshold))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/29 20:20
S34	90	S33 not S32	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/29 20:29
S35	47	S33 not S32 and contact	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/29 20:31

## EAST Search History

S36	101	S33 not S32 same contact	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/29 20:31
S37	14	(S33 not S32) same contact	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/29 20:31
S39	1029	contact same driver same switch same transformer	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/29 20:57
S40	49	contact same driver same switch same transformer same arc	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/29 20:50
S41	15	contact same driver same switch same transformer same spike	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/29 20:59
S42	121	contact same driver same (switch transistor mos bipolar fet) same transformer same (spark\$3 spik\$3 arc\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/29 21:15
S43	493	contact same driver same (switch transistor mos bipolar fet) same coil same (spark\$3 spik\$3 arc\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/29 21:16
S44	226	contact same driver same (switch) same coil same (arc\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/29 21:23

## EAST Search History

S45	479	contact same driver same (switch) same (coil induct\$4) same (arc\$3 spik\$3 spark\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/29 21:56
S46	253	S45 not S44	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/29 21:24
S47	27	contact same (driver near3 (switch transistor triac thyristor scr)) same (coil induct\$4) same (arc\$3 spik\$3 spark\$3) same (responsive respond reference threshold)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/29 22:09
S48	25	(arc\$3 spik\$3 spark\$3) same (zener near3 suppressor)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/29 22:14
S49	866	(arc\$3 spik\$3 spark\$3) same (zener near3 (protect\$3 limit\$5 prevent\$3 suppress\$3 eliminat\$3 filter\$3 limit\$3 clamp\$3 arrest\$3 banish\$3 discard\$3 trap\$4 restrain\$3 halt\$3 nullif\$4 abolish\$3 cancell\$3 terminat\$3 obstruct\$3 restrict\$3 disallow\$3 exclud\$3 inhibit\$3 prohibit\$3 interrupt\$3 tvs))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/29 22:15
S50	136	(arc\$3 spik\$3 spark\$3) near3 (zener near3 (protect\$3 limit\$5 prevent\$3 suppress\$3 eliminat\$3 filter\$3 limit\$3 clamp\$3 arrest\$3 banish\$3 discard\$3 trap\$4 restrain\$3 halt\$3 nullif\$4 abolish\$3 cancell\$3 terminat\$3 obstruct\$3 restrict\$3 disallow\$3 exclud\$3 inhibit\$3 prohibit\$3 interrupt\$3 tvs))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/29 22:19
S51	28	(arc\$3 spik\$3 spark\$3) near3 (zener near3 (protect\$3 limit\$5 prevent\$3 suppress\$3 eliminat\$3 filter\$3 limit\$3 clamp\$3 arrest\$3 banish\$3 discard\$3 trap\$4 restrain\$3 halt\$3 nullif\$4 abolish\$3 cancell\$3 terminat\$3 obstruct\$3 restrict\$3 disallow\$3 exclud\$3 inhibit\$3 prohibit\$3 interrupt\$3 tvs)) same coil	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/29 22:39

## EAST Search History

S52	94	(arc\$3 spik\$3 spark\$3 overvoltage over-voltage over\$ voltage surge) near3 (zener near3 (protect\$3 limit\$5 prevent\$3 suppress\$3 eliminat\$3 filter\$3 limit\$3 clamp\$3 arrest\$3 banish\$3 discard\$3 trap\$4 restrain\$3 halt\$3 nullif\$4 abolish\$3 cancel\$3 terminat\$3 obstruct\$3 restrict\$3 disallow\$3 exclud\$3 inhibit\$3 prohibit\$3 interrupt\$3 tvs)) same coil	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/29 22:39
S53	66	S52 not S51	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/29 22:41
S54	1	10/648200	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/29 22:56
S57	430	361/2.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/29 22:58
S58	167	"4334148" "4334351" "4400614" "4398084" "4459473"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/29 23:56
S59	1	de adj "29701352"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/30 17:22
S60	1518	(series near (zener diode)) same (voltage near (reference threshold))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/30 17:24

## EAST Search History

S61	839	(series near (zener diode)) same (voltage near (reference threshold)) same between	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/30 17:24
S62	55	(series near (zener diode)) near3 (voltage near (reference threshold)) same between	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/30 18:03
S63	1863	(series near zener)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/30 18:04
S64	1863	(series adj zener)(zener adj series)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/30 18:05
S65	14	((series adj zener)(zener adj series)) same arc	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/30 18:09
S66	112421	((series adj zener)(zener adj series)) same suppress\$3 arrest%4 CANCEL\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/30 18:10
S67	58	((series adj zener)(zener adj series)) same (suppress\$3 arrest\$4 CANCEL\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/30 18:47
S68	8	zener adj CONNECTED ADJ series	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/30 18:56

## EAST Search History

S69	1794	TWO adj zener	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/30 19:34
S70	25	(TWO adj zener) same (voltage adj (reference threshold))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/30 19:04
S71	786	TWO adj zener same between	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/30 20:08
S72	134	TWO adj zener same between same driv\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/30 20:09